

REMARKS

The application has been amended and is believed to be in condition for allowance.

Claims 1-5 remain in this application.

New claims have been amended to provide specific definitions for certain terms and to recite the invention in a manner consistent with U.S. practice.

Claim 1 has been amended as to form. Withdrawal of the claim objection is solicited.

Claims 1-5 were rejected by NAGATOMO 6,334,126.

Reference is made to specification, beginning with the paragraph spanning pages 1-2. In the present invention there is provided an improved method that enables communication without always needing to transfer as much information as previously required. This is achieved by placing, in a server, a presentation program that handles presentation to the user. In this way, the server (which is connected to a data source) both handles data to and from the source, but also the server clears the information from the layout and protocol and sends to the data source solely interaction data, and, vice versa, when receiving data from the data source places this data in a correct protocol for presentation on the user terminal.

As the program that manages the user interaction are thus placed in a server, the data source is freed from the need

to maintain the different interfaces with which data shall be presented to the user and therefore the data transported through the network is reduced.

Because the server contains those program parts that handle the presentation of information to the user and that create a user layout and also manage part of the dialogue with the user, it is not necessary to transport this information between the data source and the server, therewith reducing the transmission time and the transmission need between data source and server.

NAGATOMO has some similarities to the presently recited invention; however, NAGATOMO does not anticipate. The similarities are limited to non-patentable features such as the application environment, data format (content) conversion or selection, and connection to a data source(s).

NAGATOMO fairly teaches to collect, aggregate and discriminate data, or in general terms to filter and perform format conversion on data from data sources using a server side mediation (set of) programs. Data is processed based on tabulated capabilities of the requesting (user's) identified terminal device and network capacity. The interaction with the user is limited to a SELECT (data) requests only.

Thus, more generally, NAGATOMO discloses a method to select and convert data stemming from a single request into

formats acceptable for the terminal and the network. NAGATOMO hence only addresses data content. More importantly, NAGATOMO includes only server side methods as there is no disclosure of client side programming (i.e., in the user's terminal).

The present invention, by way of contrast, provides a method to separate data handling, access and communication from presentation, user interaction and interface (i.e., GUI) entities and processing, thus establishing what may be referred to as a "data space" or "data plane". The invention involves programming at the client side by supplying a specific client capable of processing definitions for User Interface layout(s) and user interaction as well as handling the data "space" completely separate. The method specifies a server side mediation program (server) between the client program and the data source in order to provide full freedom from data format, data source interfaces, communication protocols and the like.

Thus, the present invention clearly provides superior art, in that its methods are not limited to identification of the terminal device and communication properties, but fully controlled by the application (user dialog and functions). The present invention also requires that the method apply to all data with such a dialog, any (application) dialog, whereas NAGATOMO is limited to single requests (dynamic or predefined) for data.

With reference to the pending claims, NAGATOMO fails to teach a server which includes a presentation program, that presentation program configured to both i) clear received data from the user of presentation information (base on the correct layout and the correct protocol of the user's terminal) and ii) take received data from a data source and apply the correct layout and the correct protocol of the user's terminal for that received data so that presentation-formatted data is sent from the server to the user's terminal.

In NAGATOMO, there is only disclosed data formatting and there is not disclosed data processing and presentation, so NAGATOMO does not disclose the server receiving data from the data source and, using the layout and the protocol of the user's terminal, placing the received data from the data source into the protocol and the layout for the presentation to the user on user's terminal in the right presentation form.

NAGATOMO makes no teachings as to client side dialog layout, presentation form, data format and transmission protocols in collaboration with the client programming in order to provide, by the server, proper presentation form to the user's terminal.

Reconsideration and allowance of all the claims are respectfully requested.

Should there be any matters that need to be resolved in the present application; the Examiner is respectfully requested to contact the undersigned at the telephone number listed below.

The Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. 25-0120 for any additional fees required under 37 C.F.R. § 1.16 or under 37 C.F.R. § 1.17.

Respectfully submitted,

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